

# INTERFACE CIRCUIT FOR PROVIDING A COMPUTER LOGIC CIRCUIT WITH FIRST AND SECOND VOLTAGES AND AN ASSOCIATED METHOD

## ABSTRACT OF THE DISCLOSURE

5           A universal interface circuit and an associated method are provided that can  
supply a computer logic circuit, such as the components mounted upon an adapter card,  
with first and second inputs having first and second predetermined voltage levels,  
respectively, based upon power drawn from both first and second supply voltages. The  
interface circuit typically includes a first power supply circuit for providing the first input  
10   having the first predetermined voltage level in response to the first supply voltage.  
Additionally, the interface surface includes a regulator for generating an output having  
the second predetermined voltage level in response to the first supply voltage. The  
interface circuit further includes a second power supply circuit for providing an output  
that also has the second predetermined voltage level, albeit in response to the second  
15   supply voltage. In order to divide the anticipated load between the first and second  
supply voltages, the regulator and the second power supply circuit cooperate to provide  
the second input having the second predetermined voltage level in instances in which the  
second supply voltage is present. The interface circuit provides for the universal  
operation of the computer logic circuit, however, in that the regulator will provide the  
20   second input having the second predetermined voltage level in a manner independent of  
the second power supply circuit in instances in which the second supply voltage is  
unavailable.

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